RARα (Phospho Ser77) Rabbit pAb

CatalogNo: YP0803 Orthogonal Validated

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB,IHC,IF,ELISA

MW
- 45kD (Observed)

Isotype
- IgG

Storage

Storage*	-15°C to -25°C/1 year (Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000
IHC 1:100-1:300
ELISA 1:5000
IF 1:50-200

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	The antiserum was produced against synthesized peptide derived from human Retinoic Acid Receptor alpha around the phosphorylation site of Ser77. AA range:46-95

Specificity Phospho-RARα (S77) Polyclonal Antibody detects endogenous levels of RARα protein only when phosphorylated at S77.The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):PPsPP

Target Information

Gene name RARA

Protein Name Retinoic acid receptor alpha

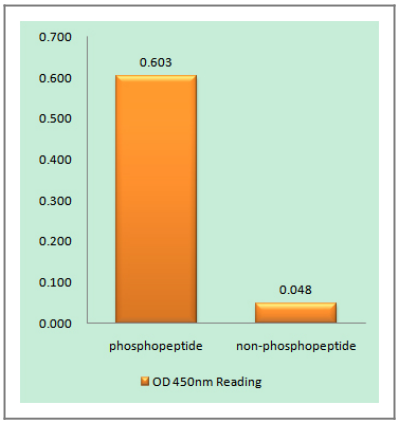
Organism	Gene ID	UniProt ID
Human	5914;	P10276;
Mouse	19401;	P11416;

Cellular Localization Nucleus . Cytoplasm . Nuclear localization depends on ligand binding , phosphorylation and sumoylation (PubMed:19850744) . Translocation to the nucleus in the absence of ligand is dependent on activation of PKC and the downstream MAPK phosphorylation (By similarity) . Increased nuclear localization upon pulsatile shear stress (PubMed:28167758) . .

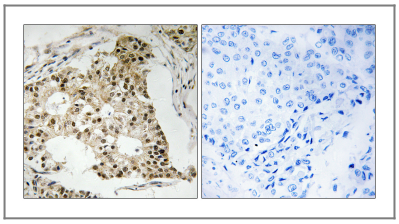
Tissue specificity Expressed in monocytes.

Function Disease:Chromosomal aberrations involving RARA may be a cause of acute promyelocytic leukemia (APL) [MIM:612376]. Translocation t (11;17) (q32;q21) with ZBTB16/PLZF; translocation t (15;17) (q21;q21) with PML; translocation t (5;17) (q32;q11) with NPM. ,Domain:Composed of three domains: a modulating N-terminal domain , a DNA-binding domain and a C-terminal steroid-binding domain. ,Function:This is a receptor for retinoic acid. This metabolite has profound effects on vertebrate development. Retinoic acid is a morphogen and is a powerful teratogen. This receptor controls cell function by directly regulating gene expression. ,online information:Retinoic acid receptor entry ,PTM:Phosphorylated. Phosphorylation does not change during cell cycle. Phosphorylation on Ser-77 is crucial for transcriptional activity. ,similarity:Belongs to the nuclear hormone receptor family. ,similarity:Belongs to the nuclear hormone receptor family. NR1 subfamily. ,similarity:Contains 1 nuclear receptor DNA-binding domain. ,subunit:Interacts with CDK7 (By similarity) . Interacts with NCOA3 and NCOA6 coactivators , leading to a strong increase of transcription of target genes. Interacts with NOCA7 in a ligand-inducible manner. ,

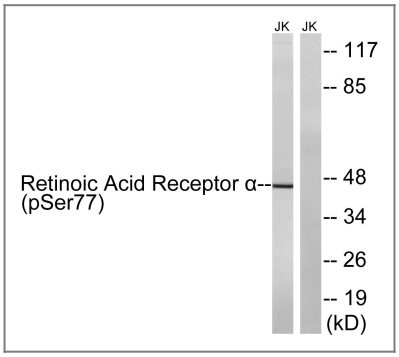
Validation Data



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using Retinoic Acid Receptor alpha (Phospho-Ser77) Antibody



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using Retinoic Acid Receptor alpha (Phospho-Ser77) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from Jurkat cells treated with PMA 125ng/ml 30' and Jurkat cells treated with insulin 0.01U/ml 15', using Retinoic Acid Receptor alpha (Phospho-Ser77) Antibody. The lane on the right is blocked with the phospho peptide.

Contact information

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Please scan the QR code to access additional product information: **RARα (Phospho Ser77) Rabbit pAb**

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